AMENDMENTS TO THE CLAIMS

Docket No.: 22106-00067-US1

This listing of claims replaces all previous versions and listings of claims in this application.

Claim Listing:

Claims 1-11: (Cancelled).

12. (New) A fault current limiting system, the system comprising:

switching means, which are connected to a circuit breaker aimed at managing current breaking operation on a power distribution line in absence of fault, said switching means providing a fast switching operation;

a current path comprising at least a limiting fuse, said path being arranged in parallel to said switching means;

a switching system to replace a blown set of fuses with an unblown set of fuses after a fault limiting operation has occurred;

a control unit, which receives signals indicative of starting fault conditions, said control unit estimating the amplitude of the fault current based on said signals, said control unit sending a switch command to the switching means and to the circuit breaker when the fault current is estimated to rise above a predefined threshold,

said control unit sending a switch command only to the circuit breaker when the fault current is estimated to remain under said predefined threshold.

- 13. (New) The fault current limiting system of claim 12, wherein the switching means comprises a fast mechanical switch.
- 14. (New) The fault current limiting system of claim 12, wherein the switching means comprises an explosive cartridge.
- 15. (New) The fault current limiting system of claim 12, wherein the switching system is provided with at least three unblown sets of fuses.

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16. (New) The fault current limiting system of claim 12, wherein the switching system comprises a revolver switch.

- 17. (New) The fault current limiting system of claim 12, wherein the control unit controls and operates also the switching system.
- 18. (New) The fault current limiting system of claim 12, further comprising means for short circuit closing after the fault, wherein the short circuit closing completes a restoration sequence of the fault current limiting system.
- 19. (New) The fault current limiting system of claim 12, further comprising a moveable track, wherein one or more of the components of the fault current limiting system are onboard of the moveable track.
- 20. (New) An electrical distribution switchboard comprising a fault current limiting system according to claim 12.
- 21. (New) A method for limiting fault current, the method comprising the following steps:

providing a current breaking operation on a power distribution line in absence of fault; providing a fast switching operation responsive to a fault;

providing a current path comprising at least a limiting fuse arranged parallel to a fast switching operation path;

automatically replacing a blown set of fuses with an unblown set of fuses responsive to a fault limiting operation;

receiving signals indicative of starting fault conditions in a control unit; estimating an amplitude of a fault current based on said received signals,

when the fault current is estimated to rise above a predefined threshold, sending a first switching command from the control unit to effect both the fast switching operation and the current breaking operation, and Amendment dated January 30, 2005

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when the fault current is estimated to remain under said predefined threshold, sending another switching command from the control unit to effect only the current breaking operation.

22. (New) A fault current limiting system, the system comprising:

a fast switch device capable of providing a fast switching operation;

a circuit breaker connected to the fast switch device, said circuit breaker controlling a current breaking operation on a power distribution line in absence of fault;

a current path comprising at least a limiting fuse, said current path being arranged in parallel to said fast switch device;

a fuse revolver switch that automatically replaces a blown set of fuses with an unblown set of fuses responsive to detection of a fault condition;

a control unit operably connected to receive signals indicative of a fault condition, said control unit estimating an amplitude of the fault current,

wherein, responsive to said fault condition, said control unit sends a switch command to both the fast switch device and to the circuit breaker when the fault current is estimated to rise above a predefined threshold,

wherein said control unit sends a switch command only to the circuit breaker when the fault current is estimated to remain under said predefined threshold.